

**EXHIBIT 1**

International Cosmetic Ingredient Dictionary  
and Handbook ("CTFA") 9<sup>th</sup> ed., p. 606 (2002)

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# **International Cosmetic Ingredient Dictionary and Handbook**

**Ninth Edition  
2002**

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## Ethylene/Acrylic Acid/VA Copolymer (Cont.)

**Information Sources:** CIR: [SQ]

**Chemical Class:** Synthetic Polymers

**Functions:** Binder; Film Former; Viscosity Increasing Agent - Nonaqueous

**Technical/Other Name:**

2-Propenoic Acid, Polymer with Ethene and Ethenyl Acetate

### ETHYLENE BRASSYLATE

**CAS No.**

105-95-3

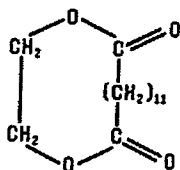
**EINECS No.**

203-347-8

**Empirical Formula:**

$C_{15}H_{26}O_4$

**Definition:** Ethylene Brassylate is the cyclic ester that conforms to the formula:



**Information Sources:** 21CFR172.515, RIFM, TSCA

**Chemical Class:** Esters

**Function:** Fragrance Ingredient

**Reported Product Categories:** Foundations; Moisturizing Preparations; Cleansing Products (Cold Creams, Cleansing Lotions, Liquids and Pads); Personal Cleanliness Products, Misc.

**Technical/Other Names:**

1,4-Dioxacycloheptadecane-5,17-dione

Ethylene brassylate (RIFM)

Ethylene Undecane Dicarboxylate

**Trade Name:**

AEC Ethylene Brassylate (A & E Connock)

### ETHYLENE/CALCIUM ACRYLATE COPOLYMER

**CAS No.:** 26445-96-5

**Empirical Formula:**

$(C_3H_4O_2 \cdot C_2H_4)_x \cdot xCa$

**Definition:** Ethylene/Calcium Acrylate Copolymer is a copolymer of ethylene and calcium acrylate monomers.

**Information Sources:** 21CFR175.105, CIR: [SQ]

**Chemical Class:** Synthetic Polymers

**Functions:** Binder; Film Former

**Technical/Other Name:**

2-Propenoic Acid, Polymer with Ethene, Calcium Salt

### ETHYLENE CARBONATE

**CAS No.**

96-49-1

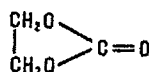
**EINECS No.**

202-510-0

**Empirical Formula:**

$C_3H_4O_3$

**Definition:** Ethylene Carbonate is the organic compound that conforms to the formula:



**Information Sources:** JCIC, JCLS

**Chemical Class:** Esters

**Function:** Solvent

**Technical/Other Name:**

1,3-Dioxolan-2-one

### ETHYLENEDIAMINE/STEARYL DIMER DILINOLEATE COPOLYMER

**Definition:** Ethylenediamine/Stearyl Dimer Dilinoleate Copolymer is a copolymer of ethylenediamine and stearyl dimer dilinoleate monomers.

**Chemical Class:** Synthetic Polymers

**Functions:** Oral Care Agent; Skin-Conditioning Agent - Miscellaneous; Viscosity Increasing Agent - Nonaqueous

**Trade Name:**

UNICLEAR (Arizona)

### ETHYLENEDIAMINE/STEARYL DIMER TALLATE COPOLYMER

**Definition:** Ethylenediamine/Stearyl Dimer Tallate Copolymer is a copolymer of ethylenediamine and tall oil dimer acid monomers, end-blocked with stearyl alcohol.

**Chemical Class:** Synthetic Polymers

**Functions:** Oral Care Agent; Skin-Conditioning Agent - Miscellaneous; Viscosity Increasing Agent - Nonaqueous

**Trade Name:**

UNICLEAR (Arizona)

### ETHYLENE DICHLORIDE

**CAS Nos.**

107-06-2

1300-21-6

**EINECS No.**

203-458-1

215-077-8

## Ethylene Dioleamide

**Empirical Formula:**

$C_2H_4Cl_2$

**Definition:** Ethylene Dichloride is the halogenated aliphatic hydrocarbon that conforms to the formula:

$ClCH_2CH_2Cl$

**Information Sources:** 21CFR165.110, 21CFR172.560, 21CFR172.710, 21CFR172.864, 21CFR173.165, 21CFR173.230, 21CFR173.315, 21CFR175.105, 21CFR573.440, EEC(II-125), FCC, MI-12(3843), TSCA

**Chemical Class:** Halogen Compounds

**Function:** Not Reported

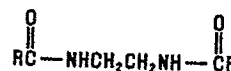
**Technical/Other Names:**

Dichloroethane

Ethane, 1,2-Dichloro-

### ETHYLENE DIHYDROGENATED TALLOWAMIDE

**Definition:** Ethylene Dihydrogenated Tallowamide is the diamide that conforms generally to the formula:



where RCO- represents the fatty acids derived from hydrogenated tallow.

**Chemical Class:** Amides

**Function:** Viscosity Increasing Agent - Nonaqueous

**Technical/Other Names:**

N,N'-1,2-Ethanedilylbis(Hydrogenated Tallowamide)

(Hydrogenated Tallowamide), N,N'-1,2-Ethanedilylbis-

### ETHYLENE DILINOLEAMIDE

**Definition:** Ethylene Dilinoleamide is the condensation product of ethylenediamine with Dilinoleic Acid (q.v.).

**Information Sources:** JCIC, JCLS

**Chemical Class:** Amides

**Function:** Skin-Conditioning Agent - Miscellaneous

**Technical/Other Name:**

Condensate of Dilinoleic Acid and Ethylenediamine

### ETHYLENE DIOLEAMIDE

**CAS No.**

110-31-6

**EINECS No.**

203-756-1

The inclusion of any compound in the *Dictionary and Handbook* does not indicate that use of that substance as a cosmetic ingredient complies with the laws and regulations governing such use in the United States or any other country.